

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>P60188PCT</b>	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. <b>PCT/EP2004/012851</b>	International filing date (day/month/year) <b>09/11/2004</b>	(Earliest) Priority Date (day/month/year) <b>19/11/2003</b>
Applicant  <b>ATOTECH DEUTSCHLAND GMBH</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

**4. With regard to the title,**

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

**5. With regard to the abstract,**

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

**6. With regard to the drawings,**

- a. the figure of the **drawings** to be published with the abstract is Figure No. \_\_\_\_\_

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☒ none of the figures is to be published with the abstract.

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 C07D241/46 C25D3/38

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 C07D C25D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, BEILSTEIN Data, CHEM ABS Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	BALLS K ET AL: "Studies in the azine series. Part II" JOURNAL OF THE CHEMICAL SOCIETY, vol. 101, no. 2, 1912, pages 1840-1852, XP008043856 the whole document	1,4-6, 10,23,24
X	KEHRMANN F: "Neue Synthesen in der Gruppe der Chinonimid-Farbstoffe, III: Synthesen der Induline 3B und 6B" CHEMISCHE BERICHTE, vol. 56, no. 11, 5 December 1923 (1923-12-05), pages 2394-2397, XP002319719 the whole document	1,4-6, 10,23,24

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

2 March 2005

Date of mailing of the international search report

11/03/2005

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KEHRMANN F ET AL: "Zur Kenntniss der Fluorindine" CHEMISCHE BERICHTE, vol. 34, 1901, pages 1217-1224, XP002319720 the whole document	1,4-6, 10,23,24
X	PATENT ABSTRACTS OF JAPAN vol. 009, no. 188 (C-295), 3 August 1985 (1985-08-03) & JP 60 056086 A (HODOGAYA KAGAKU KOGYO KK), 1 April 1985 (1985-04-01) abstract	1-30
X	-& JP 60 056086 A (HODOGAYA CHEM CO LTD) 1 April 1985 (1985-04-01) cited in the application the whole document	1-30
X	DATABASE CAPLUS CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; IL'CHENKO A Y ET AL: "Reactions of substituted phenazinium salts with nucleophilic reagents" XP002319721 retrieved from STN Database accession no. 1973:43420 RN 39676-88-5 & KHIIMIIYA GETEROTSIKLICHESKIKH SOEDENENII, no. 10, 1972, pages 1425-1429,	1,10
A	US 3 743 584 A (TODT H-G ET AL) 3 July 1973 (1973-07-03) cited in the application the whole document	1,23,30

## INTERNATIONAL SEARCH REPORT

\*Information on patent family members

International Application No

PCT/EP2004/012851

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 60056086	A	01-04-1985	NONE	
US 3743584	A	03-07-1973	DE 2028803 A1	16-12-1971
			DE 2039831 A1	05-01-1972
			AT 302764 B	25-10-1972
			CA 961494 A1	21-01-1975
			CH 556347 A	29-11-1974
			ES 391131 A1	16-07-1973
			FR 2095876 A5	11-02-1972
			GB 1357442 A	19-06-1974
			IE 35298 B1	07-01-1976
			JP 51017945 B	05-06-1976
			NL 7107804 A ,B,	08-12-1971
			SE 426704 B	07-02-1983
			SU 425408 A3	25-04-1974